



10-06-06

IPW 1751

PTO/SB/17 (07-06)

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Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).**FEE TRANSMITTAL**  
**For FY 2005****Complete if Known**

Application Number	10/530873
Filing Date	October 13, 2003
First Named Inventor	Owen Ross Chambers, Et Al.
Examiner Name	Unassigned
Art Unit	1751
Attorney Docket No.	VK0002USPCT

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) **180.00****METHOD OF PAYMENT** (check all that apply)☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_  
☒ Deposit Account Deposit Account Number: **04-1928** Deposit Account Name: **E. I. du Pont de Nemours and Company**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	<input type="checkbox"/> 300	150	<input type="checkbox"/> 500	250	<input type="checkbox"/> 200	100	0.00
Design	<input type="checkbox"/> 200	100	<input type="checkbox"/> 100	50	<input type="checkbox"/> 130	65	0.00
Plant	<input type="checkbox"/> 200	100	<input type="checkbox"/> 300	150	<input type="checkbox"/> 160	80	0.00
Reissue	<input type="checkbox"/> 300	150	<input type="checkbox"/> 500	250	<input type="checkbox"/> 600	300	0.00
Provisional	<input type="checkbox"/> 200	100	<input type="checkbox"/> 0	0	<input type="checkbox"/> 0	0	0.00

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 20 or HP =	x	50.00	=

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 3 or HP =	x	200.00	=

HP = highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
YES <input type="checkbox"/>	360.00	

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	250.00	=

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Information Disclosure Statement

**Fees Paid (\$)****180.00****SUBMITTED BY**

Signature		Registration No. 32,659 (Attorney/Agent)	Telephone (302) 992-3749
Name (Print/Type)	Mary Ann Capria		Date October 13, 2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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*Barbara A. Ferzetti*

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10/530873

VK0002USPCT

Supplemental Information Disclosure Statement (3 pages)

Information Disclosure Statement Form PTO/SB/08A (2 pages)

Information Disclosure Statement Form PTO/SB/08B (3 pages)

Copies of references cited on two (2) pages of 08A form under "Foreign Patent Documents"

Copies of references cited on three (3) pages of 08B form

Fee Transmittal (1 page)

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Page \_\_\_\_\_ of \_\_\_\_\_

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.8 minutes to complete,

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PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN THE APPLICATION OF:

NEIL ANDRE ROBERTS ET. AL.

CASE NO.: VK0002PCT(US)

APPLICATION NO.: 10/530873

CONFIRMATION NO.: 4495

GROUP ART UNIT: 1751

EXAMINER: UNASSIGNED

FILED: OCTOBER 13, 2003

FOR: REFRIGERANT COMPOSITIONS

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with 37 C.F.R. §§1.97 and 1.98, Applicant brings to the attention of the U.S. Patent and Trademark Office the information listed on the enclosed PTO/SB/08A and/or PTO/SB/08B forms. Copies of the cited references are also enclosed.

In addition to the attached listed references (both U.S. patents and non-U.S. patent documents, and technical references), also included in this Second Supplemental Information Disclosure Statement is the complete record from an European Patent Office Opposition relating to European Application No. 98-932436.3-2115, which is the European patent application related, in part, to U.S. Patent 6,428,720 (the subject matter of the pending double patenting rejection in the above referenced application). This record can be accessed on line via [www.epoline.org](http://www.epoline.org). The references discussed in this European opposition are:

D 1: Roberts, NA; "Determination of the performance, leak scenario, flammability and oil return characteristics of novel R22 replacement"; Proceedings of the Seventh International

10/10/2006 RHEBRIGHT 00000073 041928 10530873

01 FC:1806 180.00 DA

Refrigeration Conference at Purdue University, West Lafayette,  
Indiana (1998)

- D 2: Roberts, NA, Pearson, SF; "High Efficiency R22 Replacement (ISCEON 59, a mixture of R125, R134a and isobutene)"; Congress Symposium Meeting-Colloque, 1996 Int. Compressor Eng. Conf., Purdue, July 23, 1996
- D 3: EP 0 779 352 A1; Pub. 06-18-1997; Ausimont S.p.A.
- D 4: Butler D; "R22 drop-in a success at BRE"; Refrigeration and Air Conditioning, pp. 49-50 (1994)
- D 5: Fluorocarbon azeotropes, Research Disclosure 16265 (1977)
- D 6: JP 01 139678 (English Translation of the Abstract)
- D 7: JP 01 139675 (English Translation of the Abstract)
- D 8: Pearson SF, "Uses of hydrocarbon refrigerants", I.I.F.-I.I.R. Commissions B1, B2, E1 and E2, pp. 439-46 (1986)
- D 9: E-mail reply from Herrick Conference to Felix Flohr dated May 27, 2003
- D 10: Internet citation, "Conference Organizing Committee",  
<http://www.ecn.purdue.edu/Herrick/Events/organize-frame.htm>
- D 11: Internet citation, "Registration Information",  
<http://www.ecn.purdue.edu/Herrick/Events/Registration.htm>
- D 12: ASHRAE Standard 34-2001, "Contents", pp. 7 and 13
- D 13: Sworn Statement by Christoph Meurer
- D 14: Birett K, "Information sheets on hazardous substances" (1996)
- D 15: Soffientini et al., "Evaluation of alternative refrigerants when retrofitting R-22 refrigeration systems", Centro Studio Galileo - - Industria & Formazione Eleventh European Conference, Milan, Italy (2005)
- D 16: Wilson, DP, Richard, RG; "Determination of Refrigerant Lower Flammability Limits in Compliance with Proposed Addendum p to Standard 34"; ASHRAE Transactions 2002, v. 108; pp. 1-17; June 23, 2002

- D 17: Test Protocol for Determination of Refrigerant Properties  
(Description of Equipment; Chart: Position of Thermocouples and  
Transducers on LT-Calorimeter; Operating Conditions)
- D 18: Roberts, NA; "Energy Saving Refrigerant Blends Comprising  
R125, R134a, R600 or R600a"; pp 1-8
- D 19: Chart: Vapor Composition Flammability Data

The attached record provides the discussion of the opposer and  
applicant with respect to the references, as well as the decision of the  
European Patent Office, which is now on appeal.

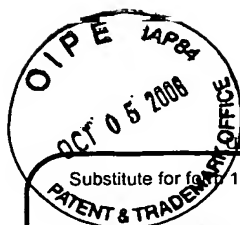
The reference (JP 2002-228307) has both a human English language  
and a machine translation of the original Japanese patent.

Respectfully submitted,



**MARY ANN CAPRIA**  
Attorney for Applicants  
Registration No.: 32,659  
Telephone: (302) 992-3749  
Facsimile: (302) 892-0699

Dated: 10/3/2006



Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 5

### Complete if Known

Application Number 10/530,873  
Filing Date April 11, 2005  
First Named Inventor Neil Andre Roberts et al.  
Group Art Unit 1751  
Examiner Name  
Attorney Docket Number VK0002USPCT

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US - 5,520,833	05-28-1996	Kaneko	
		US - 5,688,432	11-18-1997	Pearson	
		US - 5,954,995	09-21-1999	Goble	
		US - 6,065,305	05-23-2000	Arman et al.	
		US - 6,076,372	06-20-2000	Acharya et al.	
		US - 6,230,519 B1	05-15-2001	Arman et al.	
		US - 6,511,610 B2	01-28-2003	Caron et al.	
		US - 6,526,764 B1	03-04-2003	Singh et al.	
		US - 6,606,868 B1	08-19-2003	Powell et al.	
		US - 6,629,419 B1	10-07-2003	Powell et al.	
		US - 6,655,160 B2	12-02-2003	Roberts	
		US - 6,695,973 B1	02-24-2004	Musso et al.	

### FOREIGN PATENT DOCUMENTS

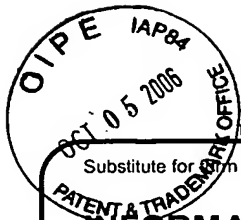
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document CountryCode <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		JP 2002 228307 A	08-14-2002	Matsushita Electric		X
		CN 1183451	06-03-1998	Gu Chujun		X
		CN 1280166 A	01-17-2001	Qinghua University		X
		EP 0 427 604 B1	04-21-1993	Elf Atochem S.A.		
		EP 0 565 265 B1	12-13-1995	Star Refrigeration Ltd.		
		EP 0 856 571 B1	04-16-2003	Showa Denko Kabushiki Kaisha		
		EP 1 184 438 B1	03-06-2002	Atofina		
		EP 1 193 305 A1	04-03-2002	Honeywell International		
		GB 2 247 462 A	04-03-1992	Star Refrigeration Ltd.		
		GB 2 250 514 A	06-10-1992	Star Refrigeration Ltd.		
		GB 2 327 427 A	01-27-1999	Rhodia Limited		

Examiner  
Signature

Date  
Considered

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 5

### Complete if Known

Application Number	10/530,873
Filing Date	April 11, 2005
First Named Inventor	Neil Andre Roberts et al.
Group Art Unit	1751
Examiner Name	
Attorney Docket Number	VK0002USPCT

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number -	Kind Code <sup>2</sup> (if known)			
		US -				
		US -				
		US -				
		US -				
		US -				
		US -				

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		CountryCode <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
			JP 01108291	10-19-1997	Daikin Kogyo KK		<input type="checkbox"/>
			JP 2576161 B2 (JP 1-139675)	01-29-1997	Asahi Glass KK		<input checked="" type="checkbox"/>
			JP 2576162 (JP 1-139678)	01-29-1997	Asahi Glass Co. Ltd.		<input checked="" type="checkbox"/>
			JP 2584337 B2 (JP 4-18484)	02-26-1997	Sanyo Electric Co. Ltd.		<input checked="" type="checkbox"/>
			JP 1997059611 A	03-04-1997	Sanyo Electric Co. Ltd.		<input checked="" type="checkbox"/>
			JP 3127138 B2	01-22-2001	Showa Denko K.K.		<input checked="" type="checkbox"/>
			JP 3754198 B2	12-22-2005	Sanyo Electric Co. Ltd.		<input checked="" type="checkbox"/>
			KR 1997-022058	05-28-1997	(Kosh-N) Hankook Shimwha Co. et al.		<input checked="" type="checkbox"/>
			RU 2 072 382 C	01-27-1997	Podchernjaev et al.		<input type="checkbox"/>
			RU 2 135 541	08-27-1999	Rossiiskij nauchnyj tsentr "Prikladnaja khimija"		<input type="checkbox"/>
			RU 2 161 637 C2	10-01-2001	Beljaev, Andrej Jur'evich		<input type="checkbox"/>
			WO 93/01152 A2	01-21-1993	DuPont		<input type="checkbox"/>
			WO 94/00529 A1	01-06-1994	Great Lakes Chemical Corporation		
			WO 97/34961	09-25-1997	Goble		
			WO 02/24829 A1	03-28-2002	Rhodia Organizue Fine Limited		<input type="checkbox"/>
							<input type="checkbox"/>

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 5

### Complete if Known

Application Number	10/530,873
Filing Date	April 11, 2005
First Named Inventor	NEIL ANDRE ROBERTS et al.
Group Art Unit	1751
Examiner Name	
Attorney Docket Number	VK0002USPCT

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		WILSON, DP, RICHARD, RG; "Determination of Refrigerant Lower Flammability Limits in Compliance with Proposed Addendum p to Standard 34"; ASHRAE Transactions 2002, v. 108; pp. 1-17; June 23, 2002	<input type="checkbox"/>
		ROBERTS, NA, PEARSON, SF; "High Efficiency R22 Replacement (ISCEON 59, a mixture of R125, R134a and isobutane)"; Congress Symposium Meeting-Colloque, 1996 Int. Compressor Eng. Conf., Purdue, July 23, 1996	<input type="checkbox"/>
		ROBERTS, NA; "Energy Saving Refrigerant Blends Comprising R125, R134a, R600 or R600a"; European Conference (Milan); pp-108; June 17-18, 2005	<input type="checkbox"/>
		" Final Draft International Standard-Projet Final de Norme Internationale", International Electrotechnical Commission, IEC; December 17, 2004	<input type="checkbox"/>
		SANDERS PA., "Table 14-2 Flammability Limits of Various Propellants in Air", Handbook of Aerosol Technology, Second Edition, Malabar, Florida, pp. 233, 250 ( 1987)	<input type="checkbox"/>
		Test Protocol for Determination of Refrigerant Properties (Description of Equipment; Chart: Position of Thermocouples and Transducers on LT-Calorimeter; Operating Conditions)	<input type="checkbox"/>
		Chart: Vapor Composition Flammability Data	<input type="checkbox"/>
		English Abstract: JP 01108291 (1987)	<input checked="" type="checkbox"/>
		English Abstract: RU 2161637	<input checked="" type="checkbox"/>
		BUTLER D., "R22 drip-in a success at BRE", Refrigeration and Air Conditioning, pp. 49-50 (1994)	<input type="checkbox"/>
		Fluorocarbon azeotropes, Research Disclosure 16265 (1977)	<input type="checkbox"/>

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 5

### Complete if Known

Application Number	10/530,873
Filing Date	April 11, 2005
First Named Inventor	Neil Andre Roberts et al.
Group Art Unit	1751
Examiner Name	
Attorney Docket Number	VK0002USPCT

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

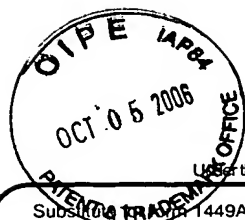
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		JP 01 139678 (English Translation of the Abstract) (1989)	<input type="checkbox"/>
		PEARSON SF, "Uses of hydrocarbon refrigerants", I.I.F.-I.I.R. Commissions B1, B2, E1 and E2, pp. 439-46 (1996)	<input type="checkbox"/>
		E-mail reply from Herrick Conference to Felix Flohr dated May 27, 2003	<input type="checkbox"/>
		Internet citation, "Conference Organizing Committee", <a href="http://www.ecn.purdue.edu/Herrick/Events/organize-frame.htm">http://www.ecn.purdue.edu/Herrick/Events/organize-frame.htm</a>	<input type="checkbox"/>
		Internet citation, "Registration Information", <a href="http://www.ecn.purdue.edu/Herrick/Events/Registration.htm">http://www.ecn.purdue.edu/Herrick/Events/Registration.htm</a>	<input type="checkbox"/>
		ASHRAE Standard 34-2001, "Contents", pp. 7 and 13	<input type="checkbox"/>
		Sworn Statement by Christoph Meurer (09 07 2003)	<input type="checkbox"/>
		BIRETT K, "Information sheets on hazardous substances" (1996)	<input type="checkbox"/>
		SOFFIENTINI ET AL., "Evaluation of alternative refrigerants when retrofitting R-22 refrigeration systems", Centro Studio Galileo -- Industria & Formazione Eleventh European Conference, Milan, Italy (2005)	<input type="checkbox"/>
		JP 01 139675 (English Translation of the Abstract) (pub. prior to 2002)	<input type="checkbox"/>
		ROBERTS NA, "Determination of the performance, leak scenario, flammability and oil return characteristics of novel R22 replacement", Proceedings of the Seventh International Refrigeration Conference at Purdue University, West Lafayette, Indiana (1998)	<input type="checkbox"/>

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Subsidiary 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 5 of 5

### Complete if Known

Application Number	10/530873
Filing Date	October 13, 2003
First Named Inventor	OWEN ROSS CHAMBERS
Group Art Unit	1751
Examiner Name	
Attorney Docket Number	VK0002USPCT

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		MUSSO E ET AL., "Miscela ternaria a base di HFC contenenti idrocarburi come sostituti "drop in" di R12 nella refrigerazione domestica", Conference on Conditioning, Heating, Refrigeration: Innovations and Trends, Milan, Italy (1997)	<input type="checkbox"/>
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